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WALTER C. FARLEY
P O BOX 329
HARPSWELL, ME 04079

EXAMINER

LAFORGIA, CHRISTIAN A

ART UNIT	PAPER NUMBER
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2131

DATE MAILED: 03/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/554,674

Applicant(s)

FROESSL, HORST

Examiner

Christian La Forgia

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 24-53 is/are pending in the application.
- 4a) Of the above claim(s) 49 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 24-48, 50-53 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The amendment filed on 15 October 2003 is noted and made of record.
2. Claims 24 through 53 have been presented for examination.
3. Claim 49 has been cancelled as per Applicant's request.

Response to Arguments

4. Applicant's arguments with respect to claims 24-53 have been considered but are moot in view of the new ground(s) of rejection.
5. See further rejections that follow.

Claim Rejections - 35 USC § 103

6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
7. Claims 24-48, 50, and 51 are rejected under 35 U.S.C. 103(a) as being obvious over U.S. Patent No. 6,487,599 to Smith et al., hereinafter Smith, in view of U.S. Patent No. 5,539,468 to Suzuki et al., hereinafter Suzuki.
8. As per claim 24, Smith teaches a method of generating and transmitting information between two service centers comprising

providing means of communication between the service centers between which generated output documents may be sent or received (Figures 2 [blocks 12a, 12n, 32], 10 [blocks 80, 124], 13 [block 158], 15 [block 12a, 12n, 182]; column 2, lines 22-36; column 3, lines 24-36; column 7, lines 12-26; column 9, lines 56-67);

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storing in electronic form at each service center a copy of each output document (Figures 4 [block 42], 8 [blocks 94, 96], 16 [blocks 192, 194]; column 4, lines 39-53; column 9, lines 43-67).

9. Smith does not teach:

repeatedly and automatically reviewing the content of output documents to identify content that is repeatedly used and which can be replaced by a shorter access code, thereby reducing the volume of unique data to be added to the output documents.

10. Suzuki teaches:

repeatedly and automatically reviewing the content of output documents to identify content that is repeatedly used and which can be replaced by a shorter access code, thereby reducing the volume of unique data to be added to the output documents (column 3, line 66 to column 4, line 6; column 7, lines 54-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to identifying parts of a document and associating them with an access code. One would be motivated to include this feature because it would reduce the amount of data to be added to documents, thus providing for a system that would minimize the size of documents by eliminating multiple instances of recurring text.

11. Regarding claim 25, Smith does not teach wherein the reviewing step includes searching through the stored information and selecting parts of documents which have been used more than a preselected number of times as being content repeatedly used and identifying such selected parts by an access code.

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12. Suzuki teaches wherein the reviewing step includes searching through the stored information and selecting parts of documents which have been used more than a preselected number of times as being content repeatedly used and identifying such selected parts by an access code (column 3, line 66 to column 4, line 6; column 7, lines 54-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to identifying parts of a document and associating them with an access code. One would be motivated to include this feature because it would reduce the amount of data to be added to documents, thus providing for a system that would not be overloaded with multiple instances of large images or text files.

13. With regards to claim 26, Smith does not teach further including transmitting the resulting output document with the resulting access code(s) which identify the repeated parts and the unique data from an originating service center to a recipient service center.

14. Suzuki teaches further including transmitting the resulting output document with the resulting access code(s) which identify the repeated parts and the unique data from an originating service center to a recipient service center (column 9, line 43 to column 10, line 34). It would have been obvious to one of ordinary skill in the art at the time the invention was made to identifying parts of a document and associating them with an access code. One would be motivated to include this feature because it would reduce the amount of data to be added to documents, thus providing for a system that would not be overloaded with multiple instances of large images or text files.

15. Regarding claim 27, Smith teaches further including:

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providing at each service center a control computer, a client memory and means for producing an output document from the client memory (Figure 7 [blocks 72, 78, 88], 11, 17 [blocks 12, 198]; column 6, lines 26-32; column 7, lines 27-37);

wherein the storing step comprises storing in the client memory data comprising parts of documents to be generated in response to a request received from a client, generating and storing a document output of selected format and content and designating unique data (column 10, line 52 to column 11, line 14; column 14, lines 36-54).

16. Smith does not teach wherein the reviewing step includes reviewing the text of the output documents to identify phrases repeatedly used by that client and which are not part of the stored data and adding the access code to the data comprising parts of documents to be generated.

17. Suzuki teaches wherein the reviewing step includes reviewing the text of the output documents to identify phrases repeatedly used by that client and which are not part of the stored data and adding the access code to the data comprising parts of documents to be generated (column 3, line 66 to column 4, line 6; column 7, lines 54-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to identifying parts of a document and associating them with an access code. One would be motivated to include this feature because it would reduce the amount of data to be added to documents, thus providing for a system that would minimize the size of documents by eliminating multiple instances of recurring text.

18. Regarding claim 28, Smith teaches including the step of encrypting each output document (column 13, lines 18-32).

19. As per claim 29, Smith teaches a method for generating and disseminating information comprising the steps of:

establishing at least two client service centers each for the use of system users, the service centers each including a computer and associated memory (Figures 2 [blocks 12a, 12n, 32], 10 [blocks 80, 124], 13 [block 158], 15 [block 12a, 12n, 182]; column 2, lines 22-36; column 3, lines 24-36; column 7, lines 12-26; column 9, lines 56-67);

providing means of electronic communication between the service centers for sending and receiving generated output documents and requests for documents between the service centers (Figures 2 [blocks 12a, 12n, 32], 10 [blocks 80, 124], 13 [block 158], 15 [block 12a, 12n, 182]; column 2, lines 22-36; column 3, lines 24-36; column 7, lines 12-26; column 9, lines 56-67);

storing in the memory at each client service center data comprising parts of documents to be compiled with additional data received from clients to form an output document (Figure 7 [block 78]; column 14, lines 42-54);

compiling and storing output documents of selected format and content and designated unique data by substituting in response to requests from clients the storage access codes of the document parts identified in and by document output compilation requests from clients (column 14, lines 42-54); and

transmitting the output documents to a recipient service center thereby reducing unique data to be added to output documents (Figure 20 [blocks 325, 330]; column 2, lines 22-36; column 9, lines 43-67; column 10, line 52 to column 6, line 14; column 14, lines 42-54).

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20. Smith does not teach:

reviewing automatically and in a learning mode the content of the output documents to identify parts thereof that are repeatedly used amongst such documents; and, generating automatically a storage access code uniquely associated with such identified document parts and adding the identified document parts each with its uniquely associated storage access code to the stored data comprising parts of documents to be compiled.

21. Suzuki teaches:

reviewing automatically and in a learning mode the content of the output documents to identify parts thereof that are repeatedly used amongst such documents (column 3, line 66 to column 4, line 6; column 7, lines 54-67; column 8, lines 3-57); and,

generating automatically a storage access code uniquely associated with such identified document parts and adding the identified document parts each with its uniquely associated storage access code to the stored data comprising parts of documents to be compiled (column 3, line 66 to column 4, line 6; column 7, lines 54-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to identifying parts of a document and associating them with an access code. One would be motivated to include this feature because it would reduce the amount of data to be added to documents, thus providing for a system that would minimize the size of documents by eliminating multiple instances of recurring text.

22. As per claim 30, Smith teaches a method for generating and disseminating information comprising the steps of:

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establishing a plurality of client service centers for the use of local system users (Figures 2 [blocks 12a, 12n, 32], 10 [blocks 80, 124], 13 [block 158], 15 [block 12a, 12n, 182]; column 2, lines 22-36; column 3, lines 24-36; column 7, lines 12-26; column 9, lines 56-67);

providing at each client service center means of communication between the client service center and a plurality of client service centers for sending and receiving generated output documents and requests for documents between the client service center and the plurality of client service centers (Figures 2 [blocks 12a, 12n, 32], 10 [blocks 80, 124], 13 [block 158], 15 [block 12a, 12n, 182]; column 2, lines 22-36; column 3, lines 24-36; column 7, lines 12-26; column 9, lines 56-67);

storing at each client service center a copy in electronic form of each output document (Figure 7 [block 78]; column 14, lines 42-54); and

23. Smith does not teach:

repeatedly and automatically reviewing the content of the output documents to identify content that is repeated used and which can be stored and assigned a shorter storage access code which can substitute this and future uses of the repeated content thereby progressively reducing the size of transmitted and received output documents.

24. Suzuki teaches:

repeatedly and automatically reviewing the content of the output documents to identify content that is repeated used and which can be stored and assigned a shorter storage access code which can substitute this and future uses of the repeated content thereby progressively reducing the size of transmitted and received output documents (column 3, line 66 to column 4, line 6; column 7, lines 54-67). It would have been obvious to one of ordinary skill in the art at the time

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the invention was made to identifying parts of a document and associating them with an access code. One would be motivated to include this feature because it would reduce the amount of data to be added to documents, thus providing for a system that would minimize the size of documents by eliminating multiple instances of recurring text.

25. As per claim 31, Smith teaches a method for generating and disseminating information comprising the steps of:

establishing a plurality of service centers at geographically separated locations (column 8, lines 10-65);

providing at each service center a control computer, a functionally divisible computer client memory, and means for producing a document output from the memory (Figures 2 [blocks 12a, 12n, 32], 10 [blocks 80, 124], 13 [block 158], 15 [block 12a, 12n, 182]; column 2, lines 22-36; column 3, lines 24-36; column 7, lines 12-26; column 9, lines 56-67);

providing at each service center communication means for communication between the service center and a plurality of clients (Figures 2 [blocks 12a, 12n, 32], 10 [blocks 80, 124], 13 [block 158], 15 [block 12a, 12n, 182]; column 2, lines 22-36; column 3, lines 24-36; column 7, lines 12-26; column 9, lines 56-67);

in response to a request received from a client, generating a document output of selected format and content and designated unique data and transmitting the document output to one or more designated recipients (column 14, lines 36-54).

26. Smith does not teach:

storing in the client memory data comprising parts of documents to be generated;

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repeatedly and automatically reviewing the text of output documents stored for a client to identify phrases repeatedly used by that client and which are not part of the stored data, and adding the identified phrases to the data comprising parts of documents to be generated, thereby reducing unique data to be added to output documents.

27. Suzuki teaches:

storing in the client memory data comprising parts of documents to be generated (column 8, lines 3-57);

repeatedly and automatically reviewing the text of output documents stored for a client to identify phrases repeatedly used by that client and which are not part of the stored data, and adding the identified phrases to the data comprising parts of documents to be generated, thereby reducing unique data to be added to output documents (column 3, line 66 to column 4, line 6; column 7, lines 54-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to identifying parts of a document and associating them with an access code. One would be motivated to include this feature because it would reduce the amount of data to be added to documents, thus providing for a system that would minimize the size of documents by eliminating multiple instances of recurring text.

28. Regarding claim 32, Smith teaches including assigning a portion of the client memory to each of the plurality of clients (Figure 4 [block 46], 7 [block 78]; column 4, lines 24-63).

29. Regarding claim 33, Smith teaches including

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electronically interconnecting the service centers with each other for bi-directional communication between each service center and each other service center (Figure 15 [block 182], 20 [blocks 325, 330]; column 12, lines 23-53; column 15, lines 27-40).

30. Regarding claim 34, Smith teaches including

establishing a storage access and compilation code having a recognizable format for transmission by a client to a service center to request a document, the code being recognizable by the control computer to identify the client, a document format and selectable items of document content including items of unique data, whereby the control computer selects one or more document components from the client's assigned memory portion, and assembles the components to form the requested document (column 9, lines 42-67).

31. Regarding claim 35, Smith teaches including electronically transmitting the document output to the recipient (Figures 14 and 15 [blocks 168, 170, 184]; column 7, lines 12-27; column 10, line 52 to column 11, line 24).

32. Regarding claim 36, Smith teaches including transmitting a printed copy of the document output to the recipient (Figures 14 and 15 [blocks 176, 178, 188], 18 and 19 [block 178]; column 10, line 52 to column 11, line 24; column 11, lines 3-14).

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33. Regarding claim 37, Smith teaches wherein the service center comprises facsimile receiving and transmitting equipment (Figures 14 and 15 [blocks 172, 174, 186]; column 5, lines 10-30; column 10, line 52 to column 11, line 24).

34. With regards to claim 38, Smith teaches including transmitting the document output to the recipient by facsimile transmission (Figures 14 and 15 [blocks 172, 174, 186]; column 5, lines 10-30; column 10, line 52 to column 11, line 24).

35. Regarding claim 39, Smith teaches wherein the service center comprises printing and mailing equipment (Figures 14 and 15 [blocks 176, 178, 188], 18 and 19 [block 178]; column 10, line 52 to column 11, line 24; column 11, lines 3-14). Smith teaches printing out received documents and receiving e-mail notifications that a document has been received.

36. Regarding claim 40, Smith teaches wherein the step of generating includes adding a date to the generated document identifying original date of transmission from the client (column 4, lines 53-60).

37. Regarding claim 41, Smith teaches including electronically marking the generated document with preselected identifying information (column 4, lines 53-60).

38. With regards to claim 42, Smith teaches including providing an electronically stored copy of each transmitted document and identifying information to the client (Figures 4 [block 42], 8 [blocks 94, 96], 16 [blocks 192, 194]; column 4, lines 39-53; column 9, lines 43-67).

39. Regarding claim 43, Smith teaches and including translating the requested document into a selected language other than the language of the original request, and transmitting the document or parts thereof in the selected language (column 8, lines 10-65). Smith teaches documents being transferred between California and Japan, thus it would have been obvious to include translating means.

40. Regarding claim 44, Smith teaches and including storing at the service center a copy in electronic, computer-readable form of each output document for a client, and providing to selected recipients output documents for said recipients in computer-readable electronic form without regard to the form in which the output document is initially transmitted to the recipient (column 9, lines 42-67).

41. Regarding claim 45, Smith teaches wherein the request received from a client can be received in any one of a plurality of communication forms including facsimile and electronic transmission, and wherein the step of transmitting the document output to a designated recipient

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includes transmitting by a communication form selected for efficiency without regard for the form of request transmission from the client to the service center (Figures 14 and 15; column 10, line 52 to column 11, line 24).

42. Regarding claim 46, Smith teaches including assigning a common portion of the client memory to all clients, the common portion being available to any client, and storing in the common portion phrases and sentences commonly usable by multiple clients (Figure 7 [blocks 72, 78, 88], 11, 17 [blocks 12, 198]; column 6, lines 26-32; column 7, lines 27-37; column 10, line 52 to column 11, line 14; column 14, lines 36-54).

43. Regarding claim 47, Smith does not teach wherein the client memory includes stored graphic elements and the step of generating a document output includes compiling the document from the graphic elements stored at the service center.

44. Suzuki teaches wherein the client memory includes stored graphic elements and the step of generating a document output includes compiling the document from the graphic elements stored at the service center (column 11, line 42 to column 12, line 10). It would have been obvious to one of ordinary skill in the art at the time the invention was made to identifying parts of a document and associating them with an access code. One would be motivated to include this feature because it would reduce the amount of data to be added to documents, thus providing for a system that would minimize the size of documents by eliminating multiple instances of recurring images.

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45. Regarding claim 48, Smith does not teach wherein the client memory includes stored graphic elements and the step of generating includes transmitting selected codes from the client to the service center for selecting and manipulating the stored elements to create and modify graphical creations at the service center.

46. Suzuki teaches wherein the client memory includes stored graphic elements and the step of generating includes transmitting selected codes from the client to the service center for selecting and manipulating the stored elements to create and modify graphical creations at the service center (column 11, line 42 to column 12, line 10). It would have been obvious to one of ordinary skill in the art at the time the invention was made to identifying parts of a document and associating them with an access code. One would be motivated to include this feature because it would reduce the amount of data to be added to documents, thus providing for a system that would minimize the size of documents by eliminating multiple instances of recurring images.

47. As per claim 50, Smith teaches an apparatus for generating and disseminating information comprising

a plurality of service centers at geographically separated locations (Figures 2 [blocks 12a, 12n, 32], 10 [blocks 80, 124], 13 [block 158], 15 [block 12a, 12n, 182]; column 2, lines 22-36; column 3, lines 24-36; column 7, lines 12-26; column 8, lines 10-65; column 9, lines 56-67), each said service center including

a control computer (Figures 2 [blocks 12a, 12n, 32], 10 [blocks 80, 124], 13 [block 158], 15 [block 12a, 12n, 182]; column 2, lines 22-36; column 3, lines 24-36; column 7, lines 12-26),

a functionally divisible client computer memory with portions thereof assigned to clients,

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the client memory having stored therein data representing parts of documents to be used repeatedly in documents generated (Figure 7 [blocks 72, 78, 88], 11, 17 [blocks 12, 198]; column 6, lines 26-32; column 7, lines 27-37);

means for compiling a document output from said memory using said stored data (column 3, lines 23-56), and

communication means for communicating between said service center and a plurality of clients and between said service center and a plurality of recipients (column 3, lines 23-56);

said control computer, in response to a request received from a client, generating and storing an output document of selected format and content using said stored data and any unique data furnished by said client and transmitting the output document to one or more designated recipients (column 3, line 57 to column 4, line 26).

48. Smith does not teach:

reviewing automatically and in a learning mode the content of the output documents to identify parts thereof that are repeatedly used amongst such documents; and,

generating automatically a storage access code uniquely associated with such identified document parts and adding the identified document parts each with its uniquely associated storage access code to the stored data comprising parts of documents to be compiled.

49. Suzuki teaches:

reviewing automatically and in a learning mode the content of the output documents to identify parts thereof that are repeatedly used amongst such documents (column 3, line 66 to column 4, line 6; column 7, lines 54-67; column 8, lines 3-57); and,

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generating automatically a storage access code uniquely associated with such identified document parts and adding the identified document parts each with its uniquely associated storage access code to the stored data comprising parts of documents to be compiled (column 3, line 66 to column 4, line 6; column 7, lines 54-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to identifying parts of a document and associating them with an access code. One would be motivated to include this feature because it would reduce the amount of data to be added to documents, thus providing for a system that would minimize the size of documents by eliminating multiple instances of recurring text.

50. Regarding claim 51, Smith teaches wherein said service center is geographically significantly closer to said recipient than to said client (column 8, lines 10-65).

51. Claims 52 and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith in view of Suzuki as applied to claim 50 above, and further in view of U.S. Patent No. 5,241,466 to Perry et al., hereinafter Perry.

52. Regarding claim 52, Smith does not teach including
means at said service centers for storing documents available for sale, and
means for printing and dispensing the documents in response to receipt of payment.

53. Perry teaches including
means at said service centers for storing documents available for sale (column 2, lines 31-64), and

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means for printing and dispensing the documents in response to receipt of payment (column 2, lines 31-64). It would have been obvious to one of ordinary skill in the art at the time the invention was made to require means for payment per document. One would be motivated to include such retribution for the document to cover storage and maintenance fees for the servers and various services provided.

54. Regarding claim 53, Smith does not teach including means responsive to voice input for generating text.

55. Perry teaches including means responsive to voice input for generating text (Abstract; column 5, lines 1-12). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include voice input for generating text. One would be motivated to do include this input device as it would provide a convenient method to update personal information, such as preferences, order a file via an automated system, or update a personal document, such as a will or other legal document.

Conclusion

56. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

57. The following patents are cited to further show the state of the art with respect to removing redundancies from documents, such as:

United States Patent No. 5,488,725 to Turtle et al., which is cited to show system of document representation retrieval by successive, iterated probability sampling.

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United States Patent No. 6,018,733 to Kirsch et al., which is cited to show methods for iteratively and interactively performing collection selection in full text searches.

United States Patent No. 6,105,023 to Callan, which is cited to show system for filtering a document stream.


58. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian La Forgia whose telephone number is (703) 305-7704. The examiner can normally be reached on Monday thru Thursday 7-5.

59. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (703) 305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

60. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christian LaForgia
Patent Examiner
Art Unit 2131

clf


AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100